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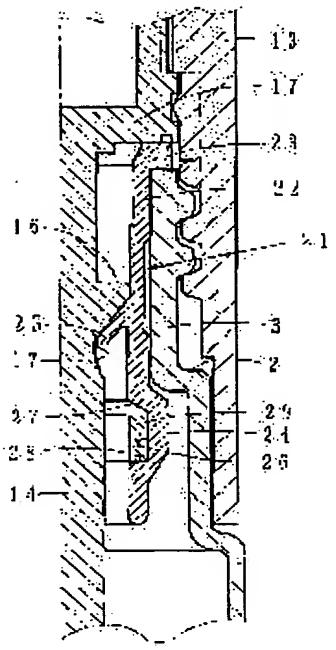
(71)Applicant : YOSHINO KOGYOSHO CO LTD
(72)Inventor : IIZUKA SHIGEO
ABE TAKAYUKI

(54) CASE WITH APPLICATION STICK

(57)Abstract:
PROBLEM TO BE SOLVED: To provide a case with an application stick in which a squeezing cylindrical member is fitted to the upper part of the case body, and an application stick is hung down into the case body from a cap fitted to the upper part of the case, thereby preventing the squeezing member from being extracted from the case body in extracting the application stick.
SOLUTION: An outward flange 23 is provided on the upper end of a cylinder 22 of the scraping cylinder member 21 and a large outside diameter larger than the inside diameter of a neck part of the case body is provided on the lower part. The outward flange is engaged with the upper end face of the neck part 3 of the case body, and the top surface of the large outside diameter part 24 is engaged with the inner surface of the lower end of the neck part 3 or made close thereto. Further, an elastic ring 29 provided separately is mounted on the larger outside diameter part 24.



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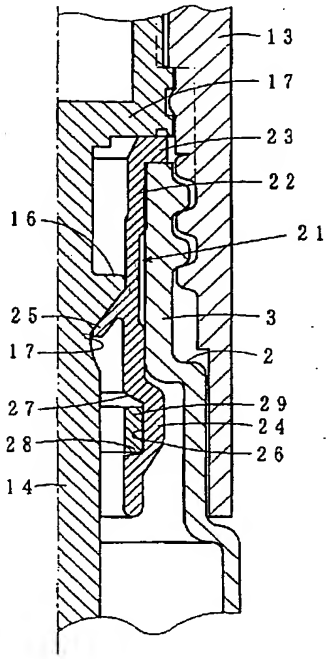
(71)出願人　000006909
株式会社吉野工業所
東京都江東区大島３丁目２番６号
(72)発明者　飯塚　茂雄
東京都江東区大島３の２の６　株式会社吉野工業所内
(72)発明者　阿部　孝之
東京都江東区大島３の２の６　株式会社吉野工業所内
(74)代理人　100068157
弁理士　今岡　良夫　（外１名）

(54)【発明の名称】　塗布棒付き容器

(57)【要約】
【課題】　容器体上部内へしごき筒部材を嵌着させ、又容器体上部へ嵌合させたキャップ内から塗布棒を容器体内へ垂下する塗布棒付き容器において、塗布棒抜出し時に上記しごき筒部材が容器体から共に抜出ししないよう設けた。
【解決手段】　しごき筒部材21の筒22上端に外向きフランジ23を、下部に容器体口頸部内径よりも大径の大外径部24を設けて、外向きフランジを容器体口頸部３の上端面へ係合させると共に、大外径部24上面を口頸部３の下端内面へ係合ないし近接させ、又大外径部24へ、別に設けた弾性リング29を装着させた。



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【特許請求の範囲】

【請求項１】　肩部を介して口頸部を起立する容器体と、口頸部内面へ嵌着されて容器体上部内へ垂下するしごき筒部材と、口頸部外面へ嵌合させたキャップ内から容器体内へ塗布棒を垂下する塗布部材とからなる、塗布棒付き容器において、

上記しごき筒部材21を弾性筒で形成して、上端に外向きフランジ23を、下部に口頸部内径よりも大径の大外径部24を、内面一部に絞り筒25を、それぞれ付設し、口頸部上端面へ外向きフランジ23を係合させると共に口頸部の下端内面へ大外径部24上面を係合ないし近接させ、かつ上記大外径部24へ、弾性リング29を装着させたことを特徴とする塗布棒付き容器。

【請求項２】　上記大外径部24内面を、下向き段部27と上向き段部28とを上下に連続する大内径部26として、該大内径部内面へ弾性リング29を嵌着させたことを特徴とする請求項１記載の塗布棒付き容器。

【発明の詳細な説明】

【０００１】

【発明の属する技術分野】本発明はマスカラ容器等の塗布棒付き容器に関する。

【０００２】

【従来の技術】例えば特開2001-46144号のように、肩部を介して口頸部を起立する容器体と、口頸部内面へ嵌着されて、容器体内へ垂下するしごき筒部材と、口頸部外面へ螺合させたキャップ内から容器体内へ塗布棒を垂下する塗布部材とからなる塗布棒付き容器が知られている。

【０００３】

【発明が解決しようとする課題】上記しごき筒部材には、塗布棒に付着した過剰の液体を取除くための絞り筒が付設してあるから、そのしごき筒部材を確実に容器体口頸部内へ装着させておかないと、塗布部材抜出しの際に、しごき筒部材が塗布棒と共に抜け出すことがある。

【０００４】このような欠点除去のためにしごき筒部材上端に付設した外向きフランジを口頸部上端面へ係合させ、かつしごき筒部材の下部に口頸部内径よりも大径の大外径部を設けて該大外径部上面を口頸部下端が形成する下向き段部へ係合させることが行われているが、このようにすると、しごき筒部はゴム状の弾性材で形成しているから、次第にその大外径部の強度が低下し、そのため上記と同様に塗布部材抜出しの際に塗布棒と共に抜出すことがある。

【０００５】本発明はそのような欠点を除去するものである。

【０００６】

【課題を解決するための手段】第１の手段として肩部を介して口頸部を起立する容器体と、口頸部内面へ嵌着されて容器体上部内へ垂下するしごき筒部材と、口頸部外面へ嵌合させたキャップ内から容器体内へ塗布棒を垂下する塗布部材とからなる、塗布棒付き容器において、上記しごき筒部材21を弾性筒で形成して、上端に外向きフランジ23を、下部に口頸部内径よりも大径の大外径部24を、内面一部に絞り筒25を、それぞれ付設し、口頸部上端面へ外向きフランジ23を係合させると共に口頸部の下端内面へ大外径部24上面を係合ないし近接させ、かつ上記大外径部24へ、弾性リング29を装着させた。

【０００７】第２の手段として、上記第１の手段を有すると共に上記大外径部24内面を、下向き段部27と上向き段部28とを上下に連続する大内径部26として、該大内径部内面へ弾性リング29を嵌着させた。

【０００８】

【発明の実施の形態】以下図１と図２とが示す第１実施形態について説明すると、１は胴部上端から上下二段に設けた肩部２，２を介して口頸部３を起立する容器体である。

【０００９】その容器体上部内へは、しごき筒部材を嵌合させている。該しごき筒部材については後述する。

【００１０】11は塗布部材で、該部材はキャップと該キャップ内から垂下させた塗布棒とで形成する。

【００１１】キャップ12は、頂壁外周から垂設した周壁13下部を口頸部３外面へ螺合させ、又その周壁上部内から塗布棒14を垂下し、塗布棒下部をブラシで形成した塗布部15としている。又塗布棒の上部には、下部小径で上部大径のテーパ状突部16を付設している。該突部下端は小外径部17とすることが望ましい。

【００１２】既述しごき筒部材21はゴム、エラストマー等の弾性材で形成し、その筒22上端に外向きフランジ23を付設し、その外向きフランジを容器体口頸部の上端面へ係合させて口頸部内面へ嵌合させ、又、その外向きフランジおよび下部を除く筒部分を口頸部３の内面へ緊密に嵌合させ、筒下部に口頸部内径よりも大外径の大外径部24を設けて該大外径部上面を口頸部下端面へ係合ないし近接させ、更に筒22中間部分内面に斜下内方へ傾斜する、内向きフランジ状の絞り筒25を付設している。

【００１３】該絞り筒25は、図２が示すように、キャップ周壁を口頸部外面へ螺合させて締付けしたとき、その絞り筒25の上面へ既述テーパ状突部16外面が水密に圧接するよう設けており、又その絞り筒の下端内径は、塗布棒14外径とほぼ等しく、塗布部15外径よりも小径としている。

【００１４】上記大外径部24は、その内面を大内径部26とし、その大内径部の上下には下向き段部27と上向き段部28とを連続させ、その大内径部26内へは、図３が示すような合成樹脂製等の弾性リング29を嵌合させる。図３Ａが示すリングは短筒状であり、図３Ｂはその短筒一部を切除してＣ字形状としたものであり、図３Ｃが示すリングは短かく設けたコイル状のリングとしている。

【００１５】尚上記大外径部24に対する弾性リング29の取付けは、図示例のほか、どのように行ってもよく、例

えば大外径部外面へリング29を適宜方法で固着させてもよい。

【００１６】図４は第１実施形態の変形例を示す。該変形例では、絞り筒25を、しごき筒部材の筒部下端に付設している。このように形成する場合は、塗布棒14外面へ付設するテーパ状突部16も下方に設け、上記絞り筒25上面へ圧接できる位置に設ける。

【００１７】口頸部３内へのしごき筒部材21の装着は、リング29および大外径部24を弾性変形させて口頸部３内へ押込み、そのまま強制的に口頸部下方まで押下げて行う。

【００１８】上記構成とした容器は、図１のように容器体口頸部へキャップ12を締め付けて塗布棒14を容器体内へ垂下させた状態から、キャップを螺脱し、塗布部材11を引抜いて使用するが、その引抜き時、塗布棒14外面へ絞り筒25内縁が接して塗布棒に付着する液体をそぎ落し、又その絞り筒内縁が塗布部15を弾性変形で小外径化させ、通過させることで、該塗布部に付着する過剰の液体を除去する。

【００１９】塗布終了後、再装着により絞り筒25上面とテーパ状突部16下面とが、又しごき筒部材の外向きフランジ23上面と塗布棒14上端の外向きフランジ部分17下面とが、それぞれ水密に接して、容器が倒れた場合の液洩れを防止する。＊

＊【００２０】

【発明の効果】本発明は既述構成とするものであり、請求項１記載のようにすることで、ゴム等の弾性材で形成するしごき筒部材21の強度が弱まって、口頸部下端内面へ係合等する大外径部24が変形し易くなっても、その大外径部には別に設けた弾性リング29を装着させているから、該弾性リングが大外径部24を補強し、よって塗布棒14引抜き時にしごき筒部材21がその塗布棒と共に抜け出ることを防止することが出来る。

【００２１】請求項２のようにすることで、上記大外径部24への弾性リング29の装着を容易に行うことが出来る。

【図面の簡単な説明】

【図１】　本発明容器の判断面図である。

【図２】　図１要部の拡大断面図である。

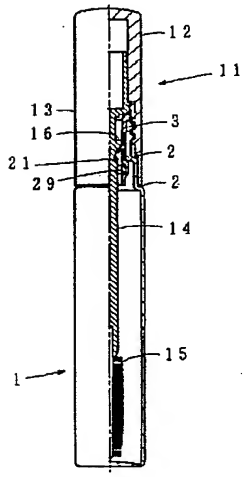
【図３】　しごき筒部材に付設させる弾性リングを変形例で示す斜視図である。

【図４】　図２の変形例を示す拡大断面図である。

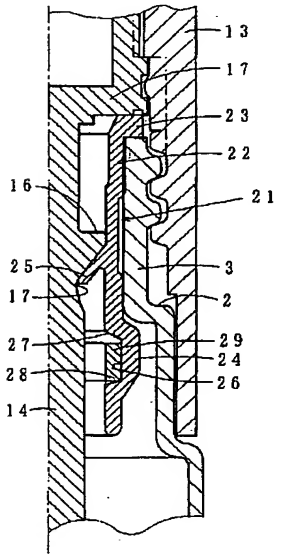
【符号の説明】

1…容器体　　11…塗布部材
12…キャップ　　14…塗布棒
21…しごき筒部材　　24…大外径部
25…絞り筒　　26…大内径部
29…リング

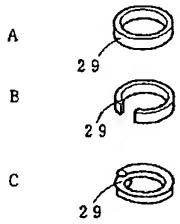
【図１】



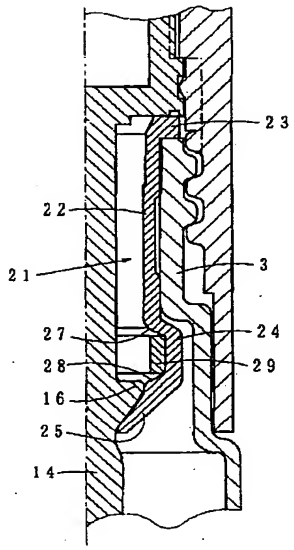
【図２】



【図３】



【図４】



CLAIMS

[Claim(s)]
[Claim 1] It is attached in the bottle object which stands up a top neck part through a shoulder, and a top neck part inside, hangs into the bottle object upper part, and comes. Cylinder part material, In the container with a spreading rod which consists of a spreading member which hangs a spreading rod into a bottle object from the inside of the cap which carried out fitting to top neck part external surface The above-mentioned cover-printing cylinder part material 21 is formed by the elastic cylinder. To upper limit an outward flange 23 The large outer-diameter section 24 of a major diameter is extracted to the lower part rather than a top neck part bore at an inside part. A cylinder 25 The container with a spreading rod characterized by having attached, respectively, having made large outer-diameter section 24 top face engage thru/or approach to the lower limit inside of a top neck part while making the outward flange 23 engaged to a top neck part upper limit side, and making the above-mentioned large outer-diameter section 24 equip with the elastic ring 29.
[Claim 2] The container with a spreading rod according to claim 1 characterized by making the elastic ring 29 attach to this Ochi diameter inside as an Ochi diameter 26 which continues the downward step 27 and the upward step 28 up and down in the large outer-diameter section 24 above-mentioned inside.

[Translation done.]

DETAILED DESCRIPTION

[Detailed Description of the Invention]
[0001]
[Field of the Invention] This invention relates to containers with a spreading rod, such as a mascara container.
[0002]
[Description of the Prior Art] For example, the container with a spreading rod which is attached in the bottle object which stands up a top neck part, and a top neck part inside, hangs into a bottle object, comes, and consists of cylinder part material and a spreading member which hangs a spreading rod into [out of the cap in which it was made to screw to top neck part external surface] a bottle object through a shoulder is known like JP,2001-46144,A.
[0003]
[Problem(s) to be Solved by the Invention] Since the drawing cylinder for removing the superfluous liquid adhering to a spreading rod is attached to the above-mentioned cover-printing cylinder part material, if it is not made to equip with the cover-printing cylinder part material into a top neck part of the bottle object certainly, cover-printing cylinder part material may slip out with a spreading rod in the case of a spreading member extract.
[0004] Although it is performed that you make the outward flange attached to cover-printing cylinder part material upper limit for such fault removal engaged to a top neck part upper limit side, and make it engaged to the downward step by which the large outer-diameter section of a major diameter is prepared, and a top neck part lower limit forms this large outer-diameter section top face in the lower part of cover-printing cylinder part material rather than a top neck part bore When it does in this way, since the cover-printing cylinder part is formed by elastic rubber-like material, the reinforcement of the large outer-diameter section may fall gradually, therefore it may be extracted with a spreading rod like the above in the case of a spreading member extract.
[0005] This invention removes such a fault.
[0006]
[Means for Solving the Problem] It is attached in the bottle object which stands up a top neck part through a shoulder as the 1st means, and a top neck part inside, hangs into the bottle object upper part, and comes. Cylinder part material, In the container with a spreading rod which consists of a spreading member which hangs a spreading rod into a bottle object from the inside of the cap which carried out fitting to top neck part external surface The above-mentioned cover-printing cylinder part material 21 is formed by the elastic cylinder. To upper limit an outward flange 23 The large outer-diameter section 24 of a major diameter is extracted to the lower part rather than a top neck part bore at an inside part. A cylinder 25 Attached, respectively, while making the outward flange 23 engaged to a top neck part upper limit side, large outer-diameter section 24 top face was made to engage thru/or approach to the lower limit inside of a top neck part, and the above-mentioned large outer-diameter section 24 was made to equip with the elastic ring 29.
[0007] While having the 1st means of the above, the elastic ring 29 was made to attach to this Ochi diameter inside as the 2nd means as an Ochi diameter 26 which continues the downward step 27 and the upward step 28 up and down in the large outer-diameter section 24 above-mentioned inside.
[0008]
[Embodiment of the Invention] When the 1st operation gestalt which drawing 1 and drawing 2 show below is explained, 1 is the shoulder 2 prepared in two steps of upper and lower sides from drum section upper limit, and a bottle object which stands up a top neck part 3 through 2.
[0009] Into the bottle object upper part, fitting of the cover-printing cylinder part material is carried out. About this cover-printing cylinder part material, it mentions later.
[0010] 11 is a spreading member and this member is formed with the spreading rod made to hang out of a cap and this cap.
[0011] Cap 12 makes the peripheral wall 13 lower part installed from the top wall periphery screw to top neck part 3 external surface, and hangs the spreading rod 14 from the inside of the peripheral wall upper part, and is made into the spreading section 15 which formed the spreading rod lower part with the brush. Moreover, the taper-like projected part 16 of an up major diameter is attached to the upper part of a spreading rod in the lower minor diameter. As for this projected part lower limit, it is desirable to consider as the small outer-diameter section 17.
[0012] Form the previous statement cover-printing cylinder part material 21 by elastic material, such as rubber and an elastomer, and it attaches an outward flange 23 to the cylinder 22 upper limit. Make the outward flange engaged to the upper limit side of a top neck part of the bottle object, and fitting is carried out to a top neck part inside. Moreover, fitting of the part for the cylinder part except the outward flange and lower part is closely carried out to the inside of a top neck part 3. Formed the large outer-diameter section 24 of a large outer diameter in the cylinder lower part rather than the top neck part bore, this large outer-diameter section top face was made to engage thru/or approach it to a top neck part lower limit side, and the drawing cylinder 25 of the shape of an inward flange which inclines toward the method of the inside of the bottom of slant in a cylinder 22 interstitial-segment inside further is attached.
[0013] As drawing 2 shows rather than spreading section 15 outer diameter, this diaphragm cylinder 25 made the cap peripheral wall screw to top neck part external surface, when it bound tight and carries out, it is provided in the top face of the drawing

cylinder 25 so that previous statement taper-like projected part 16 external surface may carry out a pressure welding watertight, and the lower limit bore of the drawing cylinder is almost equal to spreading rod 14 outer diameter, and it makes it the minor diameter.

[0014] The above-mentioned large outer-diameter section 24 uses the inside as the Ochi diameter 26, makes the downward step 27 and the upward step 28 follow the upper and lower sides of the Ochi diameter, and carries out fitting of the elastic rings 29, such as a product made of synthetic resin as drawing 3 shows, into the Ochi diameter 26. The ring which drawing 3 A shows is short tubed, and drawing 3 B excises the short cylinder part, considers as the shape of a C typeface, and is using as the ring of a short ****** beam coiled form the ring which drawing 3 C shows.

[0015] In addition, everything but the example of illustration may perform anchoring of the elastic ring 29 to the above-mentioned large outer-diameter section 24 how, for example, a ring 29 may be made to fix by the approach suitably to large outer-diameter section external surface.

[0016] Drawing 4 shows the modification of the 1st operation gestalt. In this modification, the diaphragm cylinder 25 is attached to the cylinder part lower limit of cover-printing cylinder part material. Thus, when forming, the taper-like projected part 16 attached to spreading rod 14 external surface is also formed caudad, and it prepares in the location which can carry out a pressure welding to the diaphragm cylinder 25 above-mentioned top face.

[0017] Wearing of the cover-printing cylinder part material 21 into a top neck part 3 carries out elastic deformation of a ring 29 and the large outer-diameter section 24, is pushed in into a top neck part 3, and is performed by depressing to a top neck part lower part compulsorily as it is.

[0018] Although the container considered as the above-mentioned configuration unscrews a cap and the spreading member 11 is drawn out and used for it from the condition of having bound the cap 12 tight to the top neck part of the bottle object like drawing 1 , and having made the spreading rod 14 hanging into a bottle object At the time of the drawing, fail to diminish the liquid which it extracts to spreading rod 14 external surface, and cylinder 25 common-law marriage touches, and adheres to a spreading rod, and the drawing cylinder common-law marriage makes the spreading section 15 form into a small outer diameter by elastic deformation, and the superfluous liquid adhering to this spreading section is removed by making it pass.

[0019] re-wearing after spreading termination -- extracting -- cylinder 25 top face and taper-like projected part 16 inferior surface of tongue -- moreover, outward-flange 23 top face of cover-printing cylinder part material and outward-flange partial 17 inferior surface of tongue of spreading rod 14 upper limit touch a watertight, respectively, and a liquid leak when a container falls is prevented.

[0020]

[Effect of the Invention] This invention is considered as a previous statement configuration, and is a thing [making it like] according to claim 1. Even if it becomes easy to transform the large outer-diameter section 24 which it forms by elastic material, such as rubber, and comes, and the reinforcement of the cylinder part material 21 becomes weaker, and carries out engagement etc. to a top neck part lower limit inside Since it is made to equip with the elastic ring 29 independently prepared in the large outer-diameter section, this elastic ring can reinforce the large outer-diameter section 24, and it can prevent that the cover-printing cylinder part material 21 therefore falls out and comes out with the spreading rod at the time of spreading rod 14 drawing.

[0021] By carrying out like claim 2, it can equip with the elastic ring 29 to the above-mentioned large outer-diameter section 24 easily.

[Translation done.]

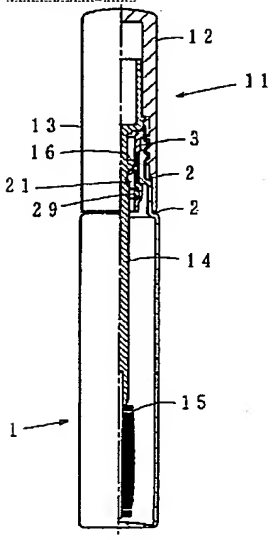
DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]
[Drawing 1] It is the decision side Fig. of this invention container.
[Drawing 2] It is the expanded sectional view of the drawing 1 important section.
[Drawing 3] It is the perspective view showing in the modification the elastic ring made to attach to cover-printing cylinder part material.
[Drawing 4] It is the expanded sectional view showing the modification of drawing 2 .
[Description of Notations]
1 — Bottle object 11 -- Spreading member
12 -- Cap 14 -- Spreading rod
21 -- Cover-printing cylinder part material 24 — Large outer-diameter section
25 — Diaphragm cylinder 26 -- Ochi diameter
29 — Ring

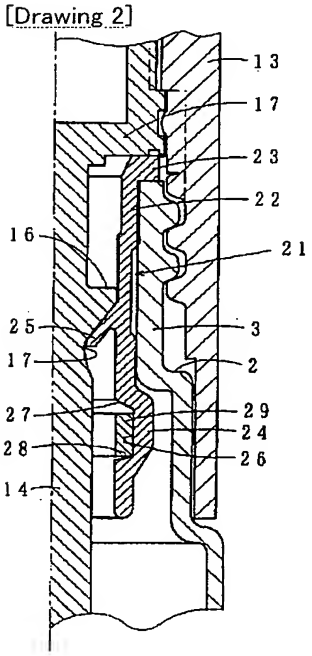
[Translation done.]

DRAWINGS

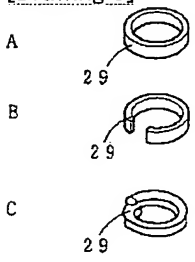
[Drawing 1]



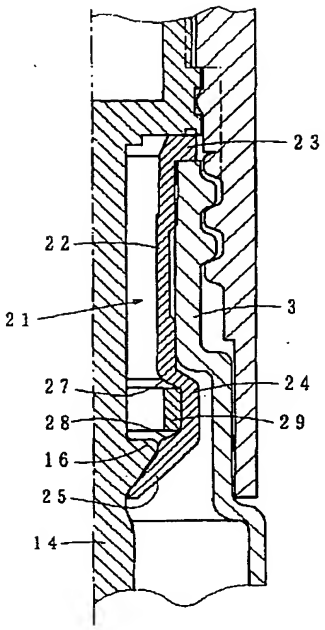
[Drawing 2]



[Drawing 3]



[Drawing 4]



[Translation done.]